

09802320 Results

SUMMARIES

Result No.	Score	% Match	Query Length	DB	ID	Description
1	20.6	98.1	21	6	AX247904	AX247904 Sequence
2	19	90.5	3283	6	AX305332	AX305332 Sequence
3	19	90.5	3283	10	MMU06670	U06670 Mus musculus
c 4	18.6	88.6	937	9	BC004474	BC004474 Homo sapi
5	18.6	88.6	1361	10	AF026064	AF026064 Mus muscu
6	18.6	88.6	1406	9	HUMVLDLR01	D16495 Human gene
7	18.6	88.6	2952	10	RATVLDLR	L35767 Rat very lo
8	18.6	88.6	3308	9	HUMVLDLRA	D16493 Human mRNA
9	18.6	88.6	3330	6	AR007142	AR007142 Sequence
10	18.6	88.6	3330	6	AR025175	AR025175 Sequence
11	18.6	88.6	3330	9	HUMVLDLRX	L22431 Human very
12	18.6	88.6	3656	6	AR141979	AR141979 Sequence
13	18.6	88.6	3656	6	I58668	I58668 Sequence 1
14	18.6	88.6	3656	9	HUMVLDLR	L20470 Human very
15	18.6	88.6	9592	6	AR141980	AR141980 Sequence
16	18.6	88.6	9592	6	I58669	I58669 Sequence 3

RESULT 1

AX247904

LOCUS AX247904 21 bp DNA linear PAT 28-SEP-2001

DEFINITION Sequence 5 from Patent WO0166801.

ACCESSION AX247904

VERSION AX247904.1 GI:15862527

KEYWORDS .

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 21)

AUTHORS Engert,J., Vohl,M.C., Brewer,C., Morgan,K., Gaudet,D. and Hudson,T.J.

TITLE Very low density lipoprotein receptor polymorphisms and uses there for

JOURNAL Patent: WO 0166801-A 5 13-SEP-2001; Complexe Hospitalier de la Sagamie (CA) ; MCGILL UNIVERSITY (CA)

FEATURES Location/Qualifiers

source 1..21

/organism="Homo sapiens"

/db_xref="taxon:9606"

BASE COUNT 4 a 2 c 9 g 5 t 1 others

ORIGIN

Query Match 98.1%; Score 20.6; DB 6; Length 21;

Best Local Similarity 100.0%; Pred. No. 0.5;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgcggagga 21

||||||||||||||||

Db 1 GGTAACCTGTGTGCGGAGGA 21

RESULT 2

AX305332

LOCUS AX305332 3283 bp DNA linear PAT 11-DEC-2001

DEFINITION Sequence 83 from Patent WO0188188.

ACCESSION AX305332

VERSION AX305332.1 GI:17644895

KEYWORDS .

SOURCE house mouse.

ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (sites)
AUTHORS Ishikawa,K., Asai,S., Takahashi,Y., Nagata,T. and Ishii,Y.
TITLE Method for examining ischemic conditions
JOURNAL Patent: WO 0188188-A 83 22-NOV-2001;
School Juridical Person Nihon University (JP)

FEATURES Location/Qualifiers
source 1. .3283
/organism="Mus musculus"
/db_xref="taxon:10090"

BASE COUNT 876 a 766 c 838 g 803 t
ORIGIN

Query Match 90.5%; Score 19; DB 6; Length 3283;
Best Local Similarity 90.5%; Pred. No. 5;
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgcgaggga 21
|||||||:|||||||
Db 115 GGTAACCTGTTGTGCGGACGA 135

RESULT 3
MMU06670
LOCUS MMU06670 3283 bp mRNA linear ROD 10-JAN-1995
DEFINITION Mus musculus very low density lipoprotein receptor mRNA, complete
cds.
ACCESSION U06670
VERSION U06670.1 GI:619646
KEYWORDS .
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 3283)
AUTHORS Gafvels,M.E., Paavola,L.G., Boyd,C.O., Nolan,P.M., Wittmaack,F.,
Chawla,A., Lazar,M.A., Bucan,M., Angelin,B.O. and Strauss,J.F. III.
TITLE Cloning of a complementary deoxyribonucleic acid encoding the
murine homolog of the very low density lipoprotein/apolipoprotein-E
receptor: expression pattern and assignment of the gene to mouse
chromosome 19
JOURNAL Endocrinology 135 (1), 387-394 (1994)
MEDLINE 94283285

REFERENCE 2 (bases 1 to 3283)
AUTHORS Gafvels,M.E.
TITLE Direct Submission
JOURNAL Submitted (14-FEB-1994) Mats E. Gafvels, Dept. of Ob/Gyn,
University of Pennsylvania School of Medicine, 778 CRB, 422 Curie
Boulevard, Philadelphia, PA 19104, USA

COMMENT On Jan 10, 1995 this sequence version replaced gi:463845.

FEATURES Location/Qualifiers
source 1. .3283
/organism="Mus musculus"
/db_xref="taxon:10090"
/chromosome="19"
/tissue_type="skeletal muscle"
/clone_lib="lamda ZAP"
/dev_stage="adult"

5'UTR 1. .181
CDS 182. .2803
/codon_start=1
/product="very low density lipoprotein receptor"
/protein_id="AAA59384.1"
/db_xref="GI:619647"
/translation="MGTSARWALWLLALCWAPRDSGATASGKKAKCDSSQFQCTNGR
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ESPEQCHMRTCRINEISCGARSTQCI PVSWRCDGENDCDNGEDEENCGNITCSADEFT
CSSGRCVSRNFVCNGQDDCDDGSDELDCAPPTCGAHEFQCSTSSCIPLSWVCDDDDADC
SDQSDSELEQCGRQPVIHTKCPTSEIQCGSGECIHKKWRCDDGDPCKDGSDEVNCPSPR

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TCGDIDECQNPGICSQICINLKGGYKCECSRQYQMDLATGVCKAVGKEPSLIFTNRRD
IRKIGLERKEYIQLVEQLRNTVALDADIAAQKLFWADLSQKAIFSASIDDKVGRHFKM
IDNVYNPAAIAVDWVYKTIYWTDAASKTISVATLDGAKRKFLFNSDLREPASIAVDPL
SGFVYWSDWGEPKIEKAGMNGFDRRPLVTEDIQWPNGITLDLVKSRLYWLDLHML
SSVDLNGQDRRIVLKSLEFLAHPLALTIFEDRVYWIDGENEAVYGANKFTGSELATLV
NNLND AQDIIIVYHELVQPSGKNWCEDDMENGCEYLCLPAPQINDHSPKYTCSCPNGY
NLEENGRECQSTSTPVTYSETKDINTTDILRTSGLVPGGINVTTAVSEVSVPPKGTSA
AWAILPLLLLVMMAVGGYLMWRNWQHKNMKS MNFDNPVYLKTTEEDLSIDIGRHSASV
GHTYPAISVVSTDDDLA"
3'UTR 2804. .3283
polyA_site 3283
/note="17 A nucleotides"
BASE COUNT 876 a 766 c 838 g 803 t
ORIGIN

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Query Match          90.5%;  Score 19;  DB 10;  Length 3283;
Best Local Similarity 90.5%;  Pred. No. 5;
Matches 19;  Conservative 1;  Mismatches 1;  Indels 0;  Gaps 0;

```

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Qy      1 ggtaacttgtygtgcggagga 21
        |||||:|||||
Db      115 GGTAAGTTGTTGTGCGGACGA 135

```

Result No.	Score	Query Match	Length	DB	ID	Description
1	20.6	98.1	21	22	AAS11760	VLDLr gene, single
2	19	90.5	3283	24	ABI99253	Mouse ischaemic co
3	18.6	88.6	3330	16	AAQ88687	Human very low den
4	18.6	88.6	3656	17	AAT36751	VLDL receptor gene
5	18.6	88.6	9592	17	AAT36752	Adenovirus vector
c 6	16.4	78.1	1653	23	AAS53022	Enterococcus faeca
c 7	16.4	78.1	5663	20	AAX12989	Enterococcus faeca
8	16.2	77.1	276	22	AAK62284	Human immune/haema
9	16.2	77.1	1242	22	AAK82123	Human immune/haema
c 10	15.8	75.2	689	21	AAF12704	Aspergillus oryzae
11	15.6	74.3	1281	23	AAS69879	DNA encoding novel
12	15.6	74.3	1281	23	AAS70502	DNA encoding novel
13	15.6	74.3	1281	23	AAS76278	DNA encoding novel
14	15.6	74.3	1281	23	AAS76509	DNA encoding novel
15	15.6	74.3	1281	23	AAS77148	DNA encoding novel
16	15.6	74.3	1281	23	AAS92304	DNA encoding novel
c 17	15.6	74.3	2053	23	AAS89320	DNA encoding novel
18	15.6	74.3	3169	23	AAS92313	DNA encoding novel
c 19	15.6	74.3	15763	23	ABL06130	Drosophila melanog
20	15.4	73.3	1639	23	ABL15479	Drosophila melanog

```

RESULT 1
AAS11760
ID AAS11760 standard; DNA; 21 BP.
XX
AC AAS11760;
XX
DT 07-NOV-2001 (first entry)
XX
DE VLDLr gene, single nucleotide polymorphism #5.
XX
KW Very Low Density Lipoprotein Receptor; VLDLr; cardiovascular disease;
KW single nucleotide polymorphism; SNP; coronary heart disease;
KW forensic; paternity testing; ss.
XX
OS Homo sapiens.
XX

```

FH Key Location/Qualifiers
 FT variation replace (11, G)
 FT /*tag= a
 FT /standard_name= "Single nucleotide polymorphism"
 XX
 PN WO200166801-A2.
 XX
 PD 13-SEP-2001.
 XX
 PF 08-MAR-2001; 2001WO-US07444.
 XX
 PR 08-MAR-2000; 2000US-0187787.
 XX
 PA (COMP-) COMPLEXE HOSPITALIER SAGAMIE.
 PA (UYMC-) UNIV MCGILL.
 XX
 PI Engert J, Vohl M, Brewer C, Morgan K, Gaudet D, Hudson TJ;
 XX
 DR WPI; 2001-522953/57.
 XX
 PT Polymorphic nucleic acid sequences encoding the very low density
 PT lipoprotein receptor, useful for predicting the presence, absence or
 PT severity of a particular phenotype or disorder, e.g. cardiovascular
 PT disease such as coronary heart disease -
 XX
 PS Claim 1; Page 34; 44pp; English.
 XX
 CC The invention relates to polymorphic nucleic acid sequences encoding the
 CC very low density lipoprotein receptor (VLDLr) and methods of analysing a
 CC nucleic acid sample for polymorphisms. This method comprises obtaining a
 CC nucleic acid sample from one or more individuals, and determining the
 CC nucleotide occupying one or more of the polymorphic sites of one or more
 CC nucleic acid molecules. The method is useful for predicting the presence,
 CC absence or severity of a particular phenotype or disorder (e.g.
 CC cardiovascular disease such as coronary heart disease associated with a
 CC particular genotype. The nucleic acids containing the polymorphic sites
 CC may also be useful in forensics and paternity testing. Wild-type or
 CC variant nucleic acid molecules encoding VLDLr or wild-type or variant
 CC VLDLr gene products can be used in the diagnosis and treatment of
 CC cardiovascular diseases and other diseases associated with VLDLr. The
 CC present sequence represents the coding sequence of VLDLr single
 CC nucleotide polymorphism #5.
 XX
 SQ Sequence 21 BP; 4 A; 3 C; 9 G; 5 T; 0 other;

Query Match 98.1%; Score 20.6; DB 22; Length 21;
 Best Local Similarity 95.2%; Pred. No. 0.24;
 Matches 20; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgcggagga 21
 |||||:|||||
 Db 1 ggtaacttgctgcggagga 21

RESULT 2
 ABI99253
 ID ABI99253 standard; cDNA; 3283 BP.
 XX
 AC ABI99253;
 XX
 DT 07-MAR-2002 (first entry)
 XX
 DE Mouse ischaemic condition related cDNA sequence SEQ ID NO:83.
 XX
 KW Mouse; ischaemia; compressive ischaemia; occlusive ischaemia;
 KW vasospastic ischaemia; ischaemic condition; ischaemic disease; ss.
 XX
 OS Mus musculus.
 XX
 PN WO200188188-A2.

XX
 PD 22-NOV-2001.
 XX
 PF 18-MAY-2001; 2001WO-JP04192.
 XX
 PR 18-MAY-2000; 2000JP-0145977.
 XX
 PA (UYNI-) UNIV NIHON SCHOOL JURIDICAL PERSON.
 XX
 PI Ishikawa K, Asai S, Takahashi Y, Nagata T, Ishii Y;
 XX
 DR WPI; 2002-034733/04.
 DR P-PSDB; ABB57051.
 XX
 PT Examining the ischemic condition (e.g. occlusive ischemia) by measuring
 PT expression levels of particular genes defined in the specification or
 PT by determining the expression profile of a gene group comprising these
 PT genes -
 XX
 PS Claim 2; Page 254-260; 2690pp; English.
 XX
 CC The present invention describes a method for examining ischaemic
 CC conditions, comprising measuring the expression levels of particular
 CC genes (I) in a test sample or determining the expression profile of a
 CC gene group in the sample comprising genes selected from (I). The method
 CC is useful for examining the ischaemic condition (e.g. compressive
 CC ischaemia, occlusive ischaemia or vasospastic ischaemia) by measuring
 CC expression levels of particular genes (ABI99202 to ABI99912, encoding
 CC the protein sequences in ABB57020 to ABB57374) or by determining the
 CC expression profile of a gene group comprising these genes. The
 CC expression levels or expression profiles produced by these genes are
 CC used as an indicator when screening for ischaemic condition-improving
 CC drugs or therapeutics for ischaemic diseases. ABI99913 and ABI99914
 CC represent PCR primers for a mouse ischaemic condition related sequence,
 CC which are used in the exemplification of the present invention.
 XX
 SQ Sequence 3283 BP; 876 A; 766 C; 838 G; 803 T; 0 other;

Query Match 90.5%; Score 19; DB 24; Length 3283;
 Best Local Similarity 90.5%; Pred. No. 2.7;
 Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgcggagga 21
 |||||:|||||
 Db 115 ggtaacttggtgtgcggacga 135

RESULT 3
 AAQ88687
 ID AAQ88687 standard; DNA; 3330 BP.
 XX
 AC AAQ88687;
 XX
 DT 21-JAN-1996 (first entry)
 XX
 DE Human very low density lipoprotein receptor DNA.
 XX
 KW VLDL receptor; very low density lipoprotein receptor;
 KW hyperlipidaemia; cardiovascular disease; disease diagnosis;
 KW atherosclerosis; hypercholesterolemia; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 195..3330
 FT /*tag= a
 XX
 PN WO9513374-A2.
 XX
 PD 18-MAY-1995.

XX
 PF 08-NOV-1994; 94WO-US12911.
 XX
 PR 08-NOV-1993; 93US-0149103.
 XX
 PA (BAYU) BAYLOR COLLEGE MEDICINE.
 XX
 PI Chan LCB;
 XX
 DR WPI; 1995-194093/25.
 DR P-PSDB; AAR74691.
 XX
 PT Nucleic acid encoding very low density lipoprotein receptor - used
 PT to develop prods. for treating e.g. hyperlipidaemia for screening
 PT assays and for diagnostic imaging
 XX
 PS Claim 2; Page 39; 59pp; English.
 XX
 CC This DNA may be expressed recombinantly in a transgenic animal. By
 CC elevating levels of a VLDL receptor in an animal, the receptors will
 CC aid in removal of circulating VLDL and related lipoproteins to
 CC decrease the risk of developing coronary diseases. It may be used
 CC in the treatment of e.g. hyperlipidaemia, atherosclerosis or
 CC hypercholesterolemia.
 XX
 SQ Sequence 3330 BP; 932 A; 727 C; 830 G; 841 T; 0 other;

Query Match 88.6%; Score 18.6; DB 16; Length 3330;
 Best Local Similarity 94.7%; Pred. No. 4.4;
 Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgcggag 19
 |||||:|||||
 Db 45 ggtaacttgctcgtgcggag 63

Issued:

SUMMARIES

Result No.	Score	% Match	Query Length	DB	ID	Description
1	18.6	88.6	3330	1	US-08-149-103-1	Sequence 1, Appli
2	18.6	88.6	3330	1	US-08-451-883-1	Sequence 1, Appli
3	18.6	88.6	3656	1	US-08-393-734-1	Sequence 1, Appli
4	18.6	88.6	3656	4	US-08-894-489-1	Sequence 1, Appli
5	18.6	88.6	9592	1	US-08-393-734-3	Sequence 3, Appli
6	18.6	88.6	9592	4	US-08-894-489-3	Sequence 3, Appli
7	14.4	68.6	2154	4	US-09-488-856A-3	Sequence 3, Appli
c 8	14.4	68.6	3606	1	US-07-661-610C-7	Sequence 7, Appli
9	14.4	68.6	12394	4	US-09-488-856A-10	Sequence 10, Appl
10	14.2	67.6	1049	4	US-09-021-701-39	Sequence 39, Appl
c 11	14.2	67.6	1075	4	US-09-276-531-95	Sequence 95, Appl
12	14.2	67.6	1288	1	US-08-047-041A-24	Sequence 24, Appl
13	14.2	67.6	1316	1	US-08-047-041A-11	Sequence

RESULT 1
 US-08-149-103-1
 ; Sequence 1, Application US/08149103
 ; Patent No. 5750367
 ; GENERAL INFORMATION:
 ; APPLICANT: Lawrence C. B. Chan
 ; TITLE OF INVENTION: HUMAN AND MOUSE VERY LOW
 ; TITLE OF INVENTION: DENSITY LIPOPROTEIN RECEPTORS
 ; TITLE OF INVENTION: AND METHODS FOR USE OF SUCH
 ; TITLE OF INVENTION: RECEPTORS
 ; NUMBER OF SEQUENCES: 4

```

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 611 West Sixth Street
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90017
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: IBM MS-DOS (Version 5.0)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/149,103
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: none
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 204/052
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3330 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-149-103-1

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Query Match      88.6%; Score 18.6; DB 1; Length 3330;
Best Local Similarity 94.7%; Pred. No. 0.51;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 ggtaacttgtygtgcggag 19
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Db      45 GGTAAGTTGTCGTGCGGAG 63

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RESULT 2
US-08-451-883-1
; Sequence 1, Application US/08451883
; Patent No. 5798209
; GENERAL INFORMATION:
; APPLICANT: Lawrence C.B. Chan
; TITLE OF INVENTION: HUMAN AND MOUSE VERY LOW DENSITY
; TITLE OF INVENTION: LIPOPROTEIN RECEPTORS AND METHODS FOR
; TITLE OF INVENTION: USE OF SUCH RECEPTORS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LYON & LYON
; STREET: 633 West Fifth Street, Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: IBM MS-DOS (Version 6.22)
; SOFTWARE: WordPerfect (Version 5.1)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/451,883

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; FILING DATE: May 26, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: one
; APPLICATION NUMBER: 08/149,103
; FILING DATE: No. 5798209ember 8, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Knight, Matthew W.
; REGISTRATION NUMBER: 36,846
; REFERENCE/DOCKET NUMBER: 212/268
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3330 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-451-883-1

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Query Match      88.6%; Score 18.6; DB 1; Length 3330;
Best Local Similarity 94.7%; Pred. No. 0.51;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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```

Qy      1 ggtaacttgtygtgcggag 19
        |||||:|||||
Db      45 GGTAAGTGTCTGCGGAG 63

```

SUMMARIES

Result	No.	Score	% Match	Query Length	DB	ID	Description
c	1	18.6	88.6	265	10	BE863986	BE863986 UI-M-BH1-
	2	18.6	88.6	404	10	BF462855	BF462855 UI-M-CG0p
c	3	18.6	88.6	438	9	AA444716	AA444716 ve75c04.r
	4	18.6	88.6	510	10	BF466075	BF466075 UI-M-CG0p
	5	18.6	88.6	624	10	BF466831	BF466831 UI-M-CG0p
	6	18.6	88.6	686	9	BB625757	BB625757 BB625757
	7	18.6	88.6	700	10	BE985363	BE985363 UI-M-CG0p
	8	18.6	88.6	773	10	BE981910	BE981910 UI-M-CG0p
	9	18	85.7	251	9	BB584440	BB584440 BB584440
	10	18	85.7	1904	10	BE559511	BE559511 601345339
	11	17.6	83.8	433	10	BI338298	BI338298 362016 MA
c	12	17.4	82.9	367	12	AQ922702	AQ922702 RPCI-23-2
c	13	17.4	82.9	760	10	BG195845	BG195845 RST15106
	14	16.4	78.1	275	10	BF729751	BF729751 mab75f12.

```

RESULT 1
BE863986/c
LOCUS BE863986 265 bp mRNA linear EST 29-SEP-2000
DEFINITION UI-M-BH1-anh-f-10-0-UI.r1 NIH_BMAP_M_S2 Mus musculus cDNA clone
          UI-M-BH1-anh-f-10-0-UI 5', mRNA sequence.
ACCESSION BE863986
VERSION BE863986.1 GI:10384574
KEYWORDS EST.
SOURCE house mouse.
  ORGANISM Mus musculus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 265)
AUTHORS Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE Normalization and subtraction: two approaches to facilitate gene

```


discovery
JOURNAL Genome Res. 6 (9), 791-806 (1996)
MEDLINE 97044477
COMMENT Contact: Chin, H
National Institute of Mental Health
6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD
20892-9643, USA
Tel: 301 443 1706
Fax: 301 443 9890
Email: mEST@mail.nih.gov
cDNA Library Preparation: M.B. Soares Lab Clone distribution:
Researchers may obtain BMAP cDNA clones from RESEARCH GENETICS. It
should be noted that Bento Soares is generating a small number of
additional specialized non-redundant arrays of BMAP cDNAs whose
availability will be considered under appropriate and limited
collaborative arrangements
Seq primer: M13 Reverse.

FEATURES Location/Qualifiers
source 1. .265
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UI-M-BH1-anh-f-10-0-UI"
/clone_lib="NIH_BMAP_M_S2"
/dev_stage="27-32 days"
/lab_host="DH10B (Life Technologies)"
/note="Vector: pT7T3D-Pac (Pharmacia) with a modified
polylinker; Site_1: Not I; Site_2: Eco RI; The
NIH_BMAP_M_S2 library is a subtracted library derived from
NIH_BMAP_M_S1, which in turn is a subtracted library
derived from a mixture of normalized libraries from ten
regions of the mouse brain (cerebellum, brain stems,
olfactory bulbs, hypothalamus, cortex, amygdala, basal
ganglia, pineal gland, striatum, hippocampus). The driver
used for subtraction consisted of a pool of 5,000 clones
from the NIH_BMAP_M_S1 library and a pool of 2,000 clones
obtained from non-normalized and normalized mouse brain
spinal cord libraries."

BASE COUNT 42 a 90 c 93 g 40 t
ORIGIN

Query Match 88.6%; Score 18.6; DB 10; Length 265;
Best Local Similarity 94.7%; Pred. No. 33;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgcggag 19
|||||||:|||||||
Db 179 GGTAAGTTGTTGTGCGGAG 161

RESULT 2
BF462855
LOCUS BF462855 404 bp mRNA linear EST 04-DEC-2000
DEFINITION UI-M-CG0p-bni-h-05-0-UI.s1 NIH_BMAP_Ret4_S2 Mus musculus cDNA clone
UI-M-CG0p-bni-h-05-0-UI 3', mRNA sequence.
ACCESSION BF462855
VERSION BF462855.1 GI:11532078
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 404)
AUTHORS Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE Normalization and subtraction: two approaches to facilitate gene
discovery
JOURNAL Genome Res. 6 (9), 791-806 (1996)
MEDLINE 97044477
COMMENT Contact: Chin, H
National Institute of Mental Health

6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD
 20892-9643, USA
 Tel: 301 443 1706
 Fax: 301 443 9890
 Email: mEST@mail.nih.gov
 Oligo-dT track not found, Not I site shown in beginning of sequence
 is likely internal to the message. cDNA Library Preparation: M.B.
 Soares Lab Clone distribution: Researchers may obtain BMAP cDNA
 clones from RESEARCH GENETICS. It should be noted that Bento Soares
 is generating a small number of additional specialized
 non-redundant arrays of BMAP cDNAs whose availability will be
 considered under appropriate and limited collaborative arrangements
 The following repetitive elements were found in this cDNA sequence:
 118-182, >(GGA)n#Simple_repeat
 Seq primer: M13 Forward
 POLYA=No.

FEATURES Location/Qualifiers
 source 1. .404
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UI-M-CG0p-bni-h-05-0-UI"
 /clone_lib="NIH_BMAP_Ret4_S2"
 /lab_host="DH10B (Life Technologies)"
 /note="Vector: pT7T3D-Pac (Pharmacia) with a modified
 polylinker; Site_1: Not I; Site_2: Eco RI; The
 NIH_BMAP_Ret4_S2 library is a subtracted library,
 ultimately derived from mouse retina tissue libraries at
 various stages of development. For a detailed description
 of the library from which this clone was derived, please
 visit our web site at brainest.eng.uiowa.edu.
 TAG_SEQ=None found"
 BASE COUNT 54 a 132 c 141 g 77 t
 ORIGIN

Query Match 88.6%; Score 18.6; DB 10; Length 404;
 Best Local Similarity 94.7%; Pred. No. 37;
 Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgcggag 19
 |||||:|||||
 Db 191 GGTAAGTTGTTGTGCGGAG 209

RESULT 3
 AA444716/c
 LOCUS AA444716 438 bp mRNA linear EST 03-JUN-1997
 DEFINITION ve75c04.r1 Soares_mammary_gland_NbMMG Mus musculus cDNA clone
 IMAGE:832038 5' similar to gb:U06670 Mus musculus very low density
 lipoprotein receptor mRNA, complete (MOUSE);, mRNA sequence.
 ACCESSION AA444716
 VERSION AA444716.1 GI:2157175
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE 1 (bases 1 to 438)
 AUTHORS Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,
 Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,
 Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,
 Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and
 Waterston,R.
 TITLE The WashU-HHMI Mouse EST Project
 JOURNAL Unpublished (1996)
 COMMENT Contact: Marra M/Mouse EST Project
 WashU-HHMI Mouse EST Project
 Washington University School of MedicineP
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800

Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LLNL ; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:492254
Seq primer: -28m13 rev2 ET from Amersham
High quality sequence stop: 397.

FEATURES
source Location/Qualifiers
1. .438
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="IMAGE:832038"
/clone_lib="Soares_mammary_gland_NbMMG"
/sex="male"
/tissue_type="mammary gland"
/dev_stage="4 weeks"
/lab_host="DH10B"
/note="Organ: mammary gland; Vector: pT7T3D-Pac (Pharmacia
) with a modified polylinker; Site_1: Not I; Site_2: Eco
RI; 1st strand cDNA was primed with a Not I - oligo(dT)
primer [5'
TGTTACCAATCTGAAGTGGGAGCGGCCGCGAATGGTTTTTTTTTTTTTTTTTTTTTTT
T 3']; double-stranded cDNA was ligated to Eco RI
adaptors (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of the modified pT7T3 vector.
RNA provided by Dr. Minoru Ko, Wayne State Univ. Library
constructed and normalized by Bento Soares and M.Fatima
Bonaldo."
BASE COUNT 86 a 138 c 133 g 81 t
ORIGIN

Query Match 88.6%; Score 18.6; DB 9; Length 438;
Best Local Similarity 94.7%; Pred. No. 38;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgcggag 19
|||||||:|||||||
Db 344 GGTAAGTTGTTGTGCGGAG 326